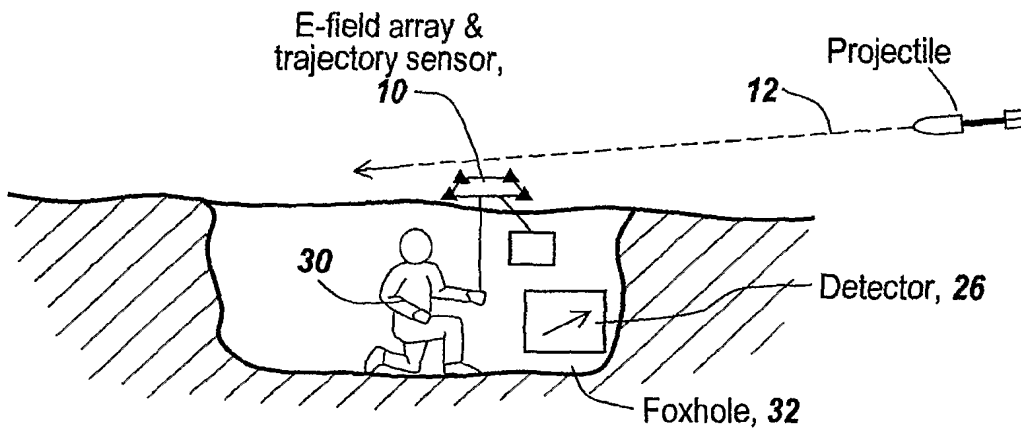
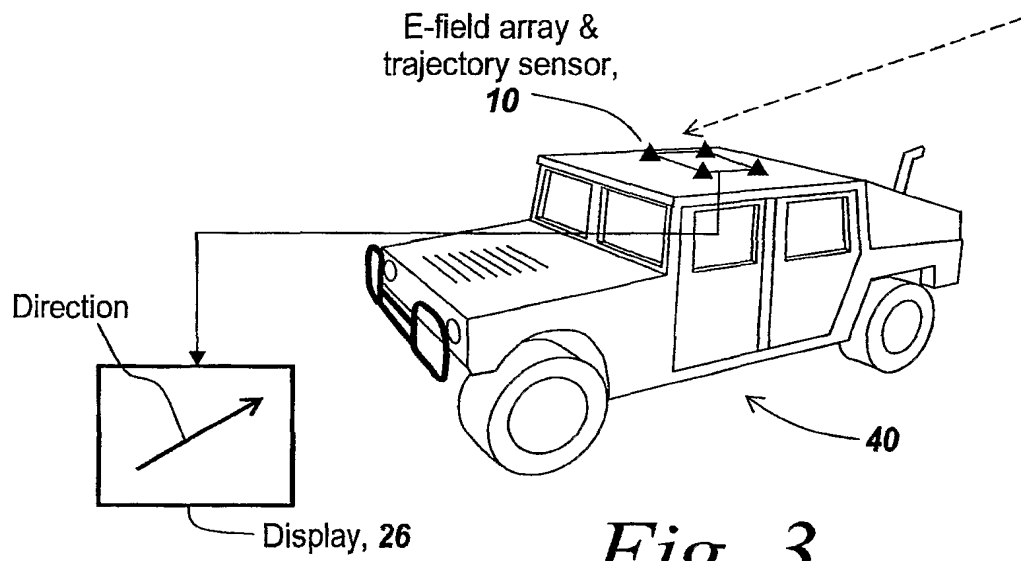
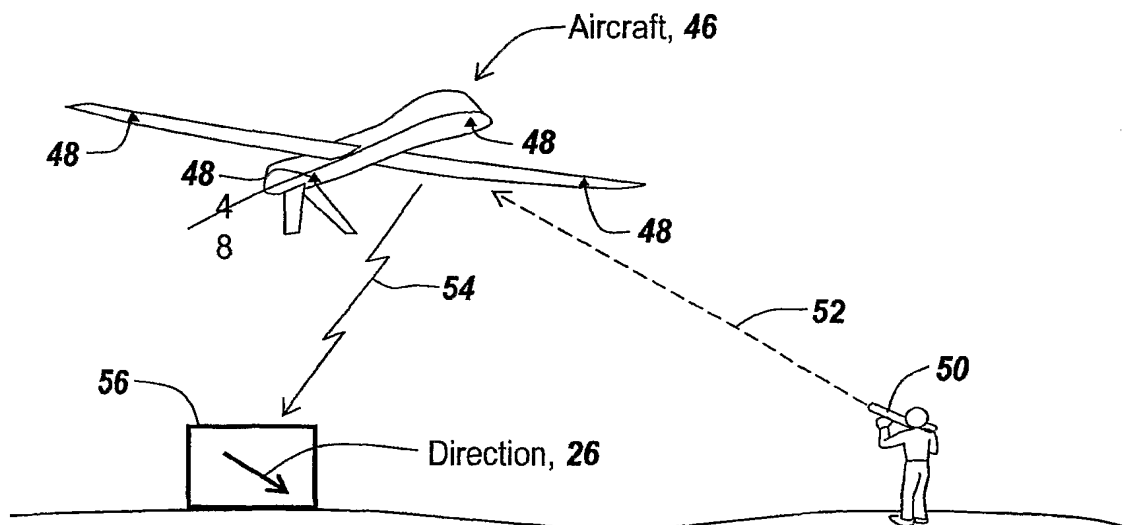
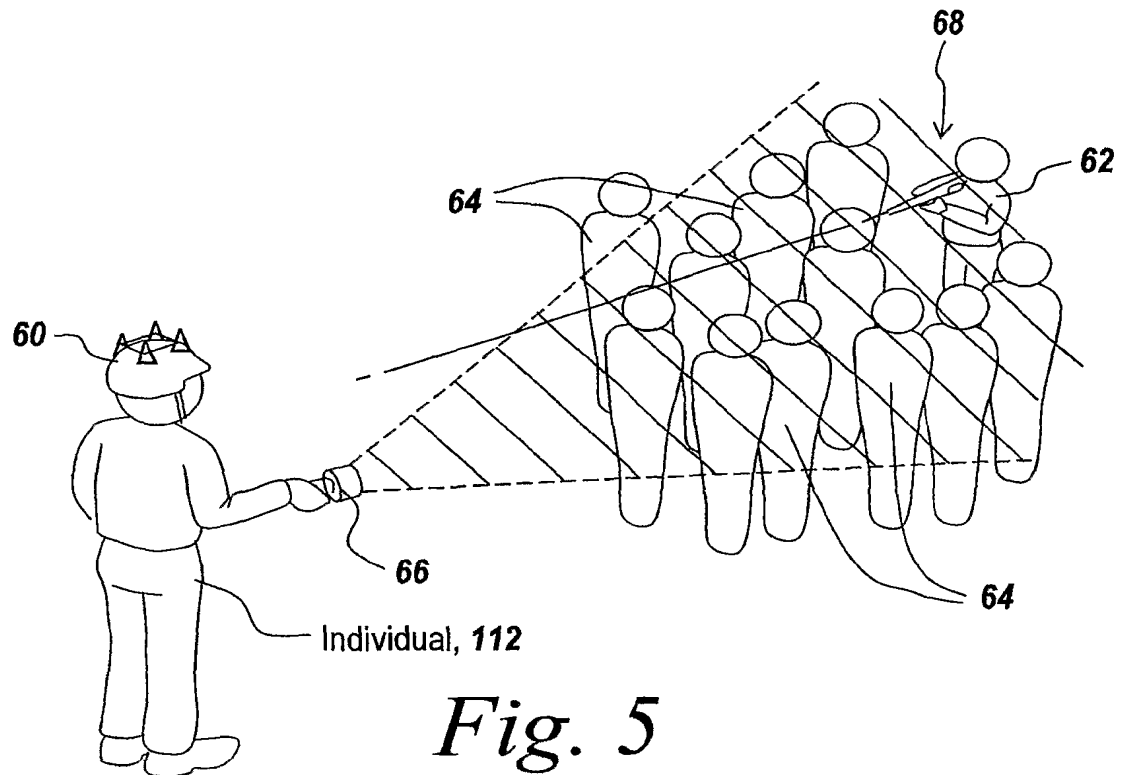
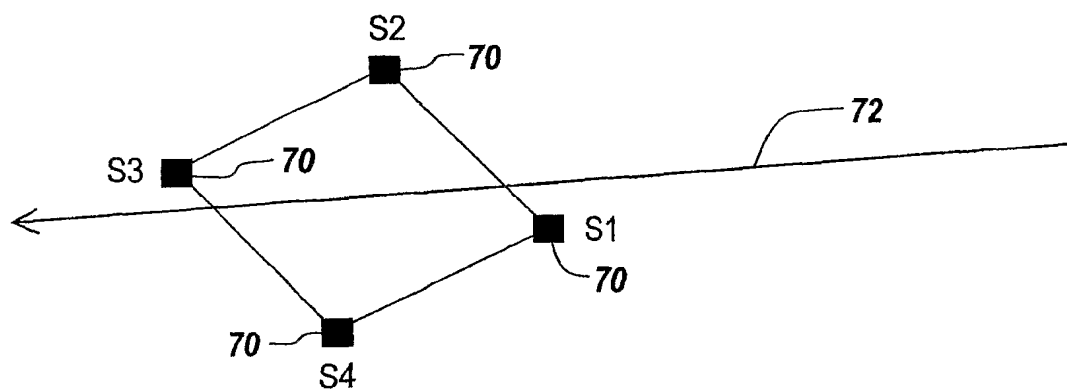
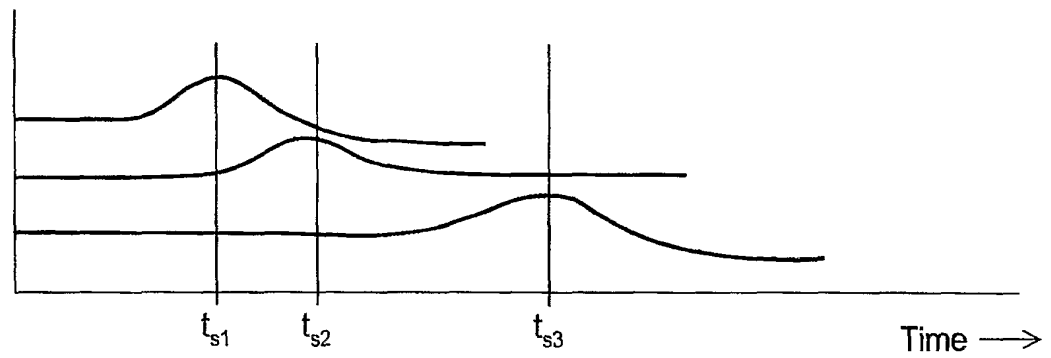
*Fig. 1**Fig. 2*

*Fig. 3**Fig. 4*



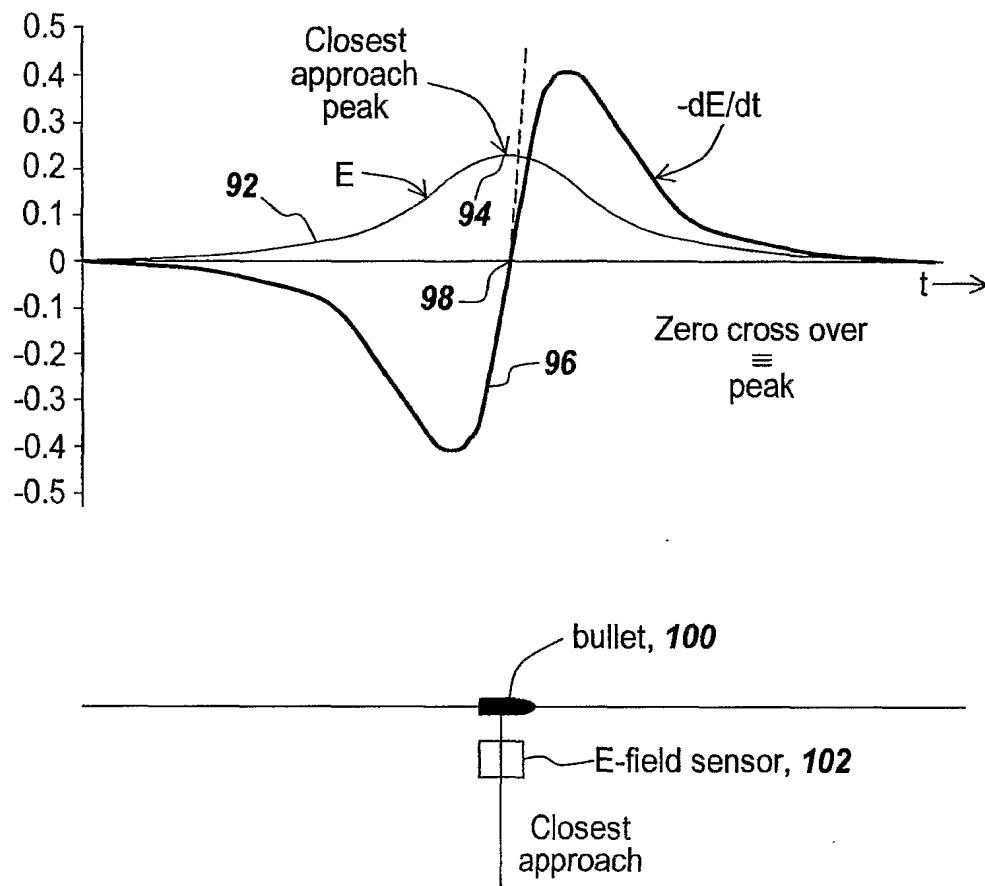
*Fig. 6*





TDOA  $t_{s1}$   $t_{s2}$   $t_{s3} \rightarrow$  Arc 2 Tan  $\rightarrow$  bearing (azimuth)

*Fig. 7*

*Fig. 8*

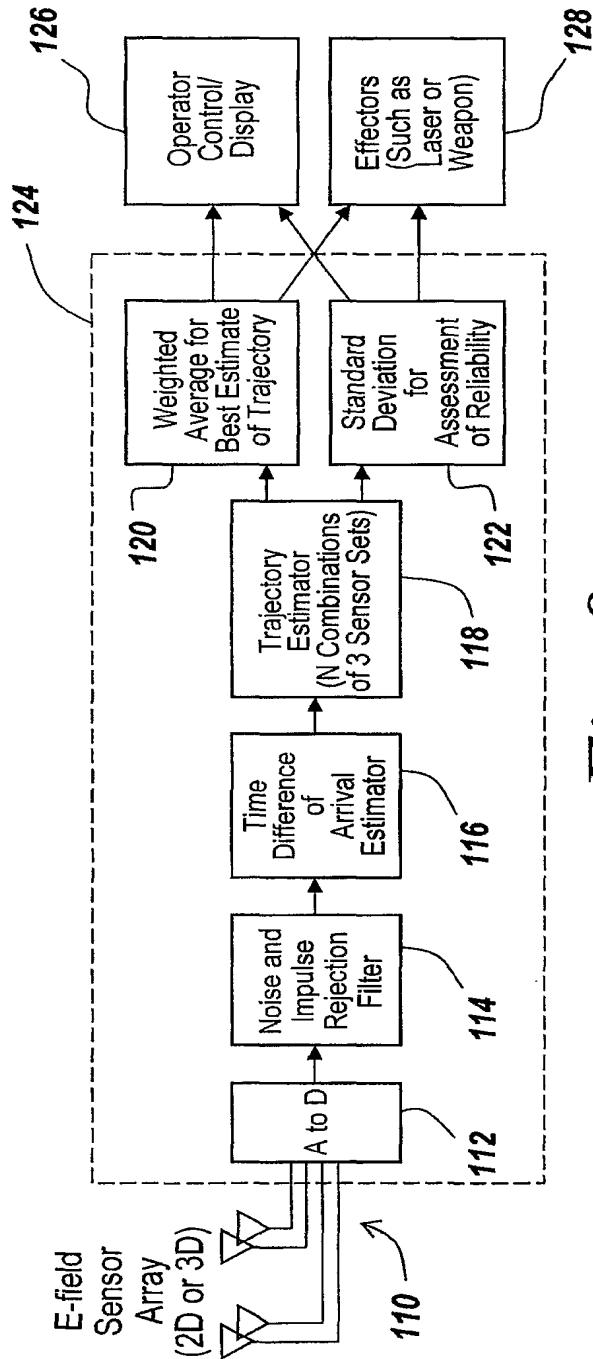


Fig. 9

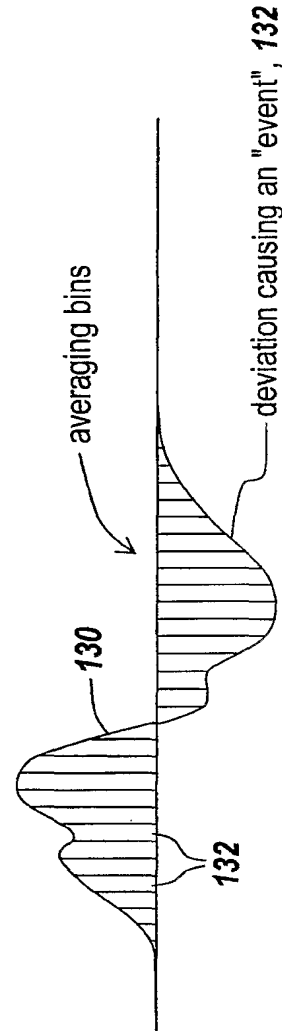
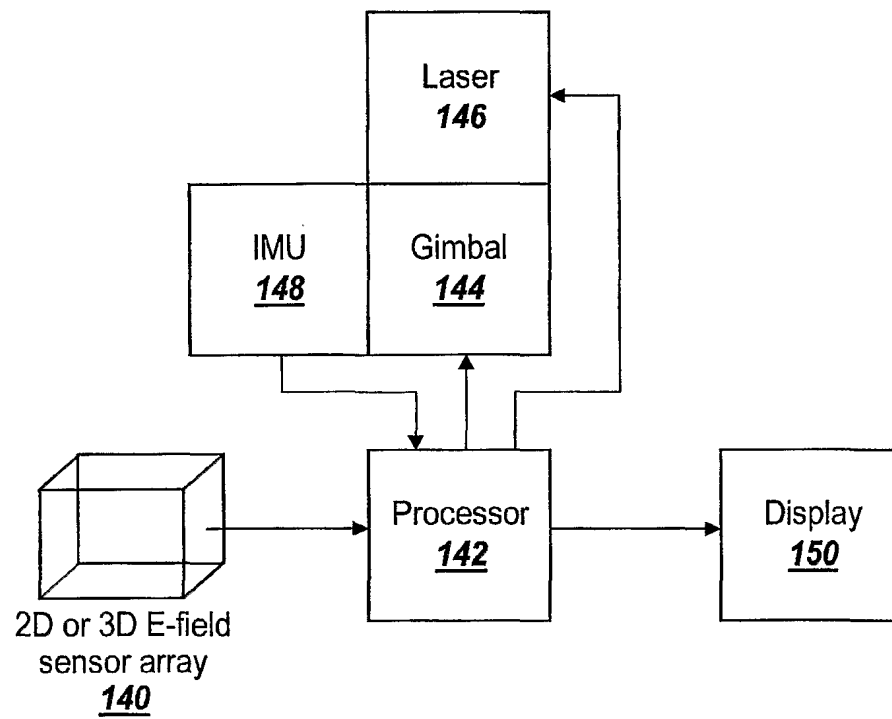


Fig. 10

*Fig. 11*

# Detection of .223 (M4) Bullet

- Second Generation Sensor
- E-field Signatures travel at the speed of light
- The bullet is traveling at about 2800 ft/sec
- All sensors register the muzzle blast "at the same time"
- Sensors 2, 3 and 4 show "blips" as the bullet passes them

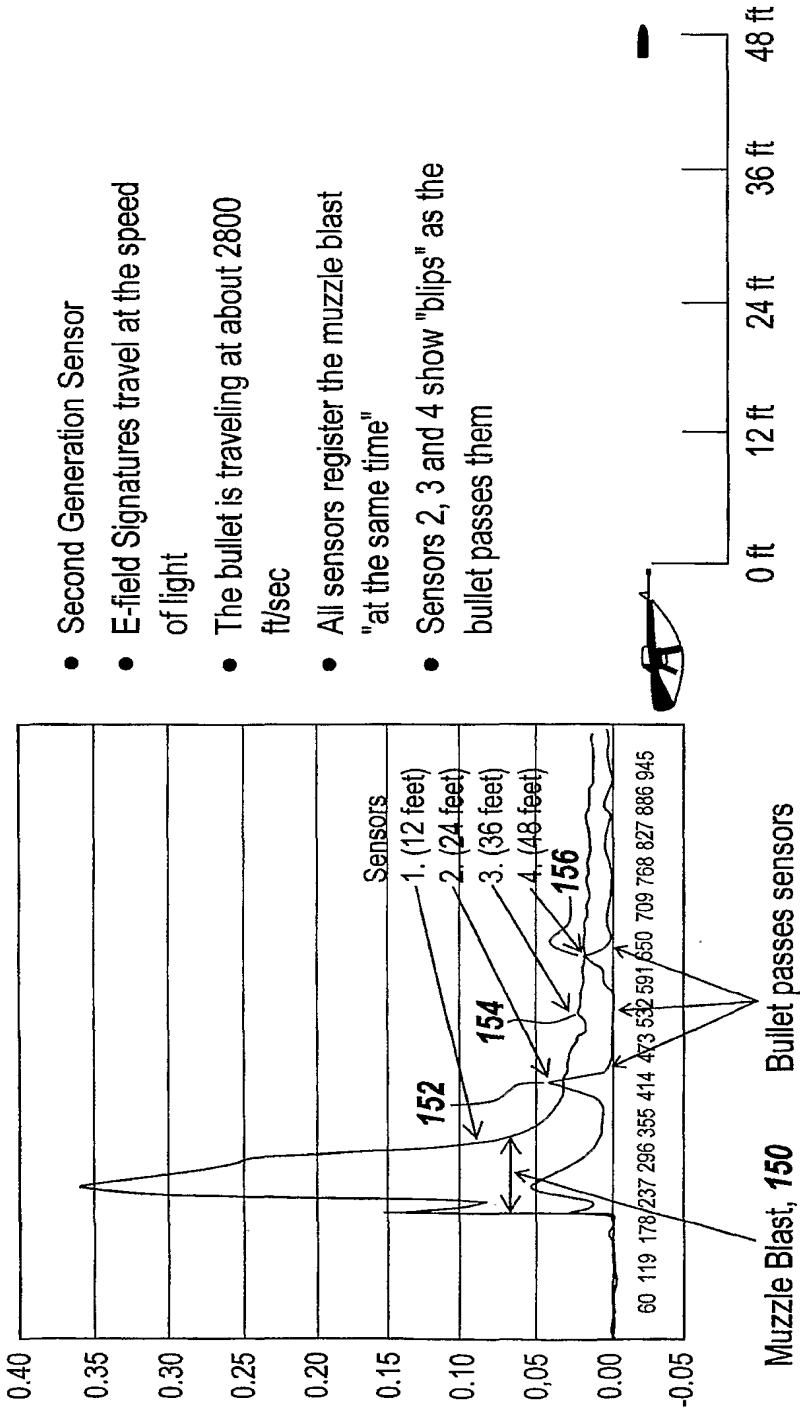
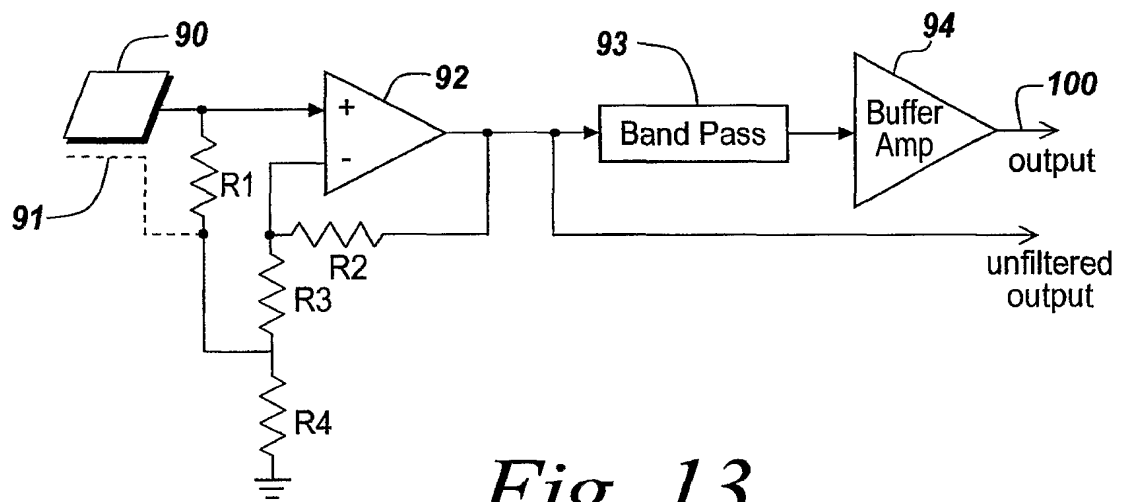
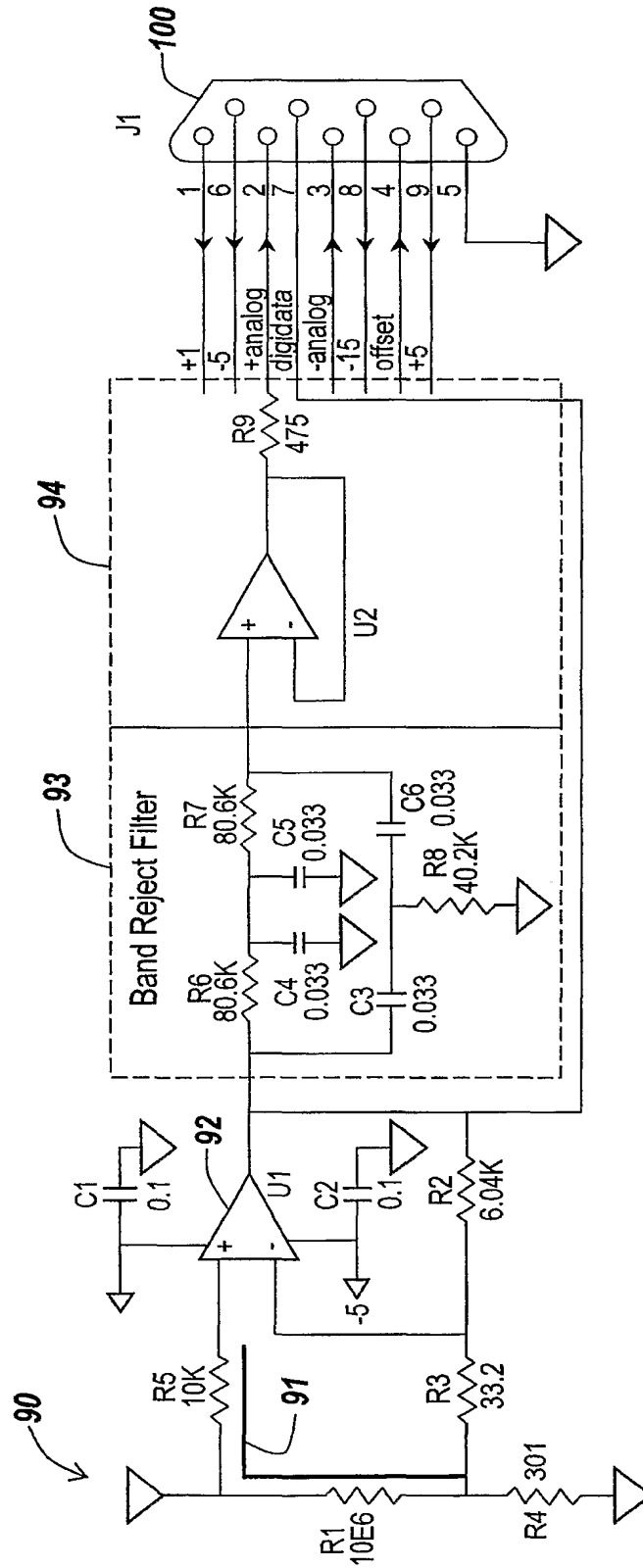
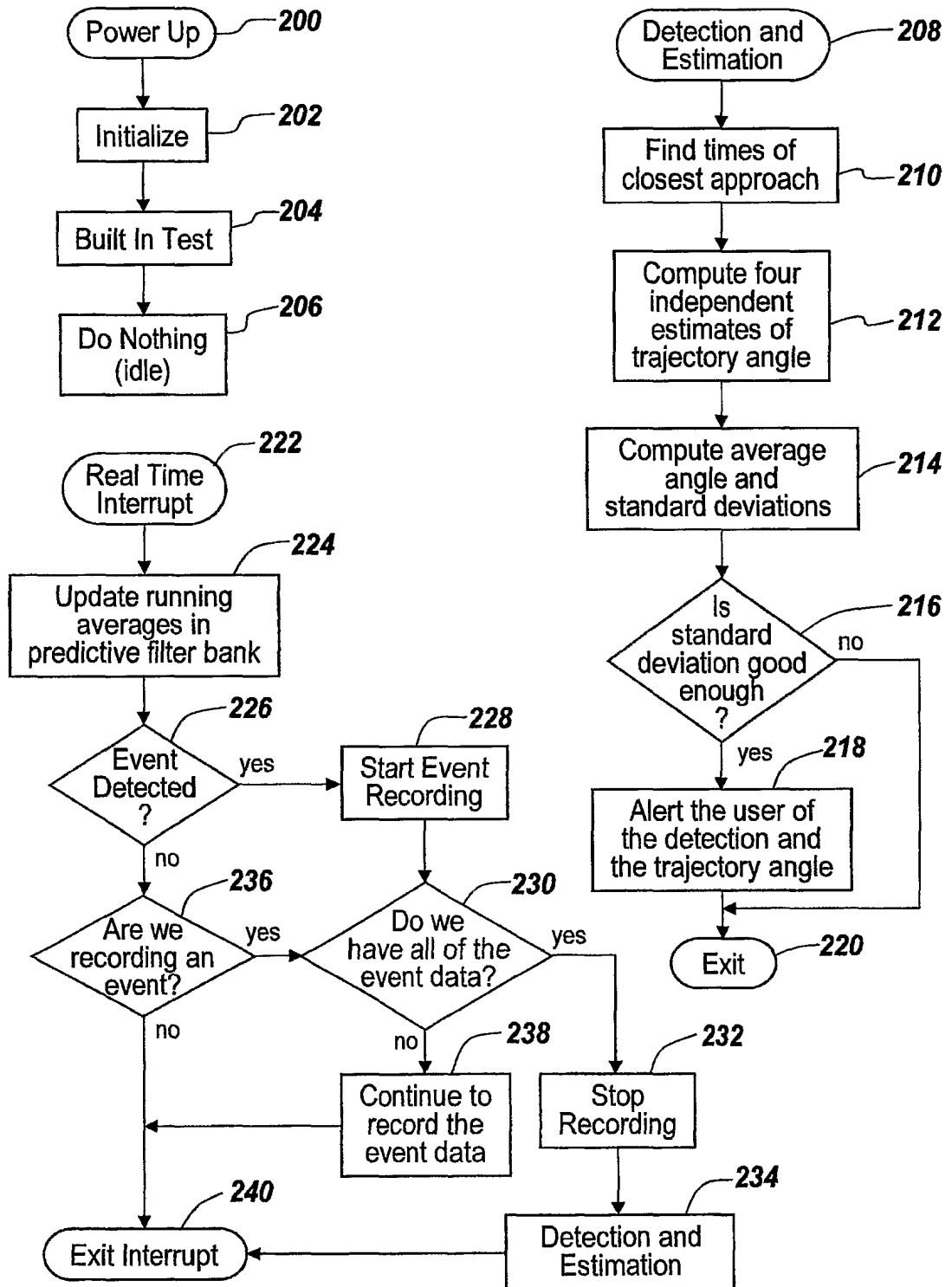


Fig. 12



*Fig. 13*

*Fig. 14*

*Fig. 15*